

What is claimed is:

1. A diecasting machine comprising:

a mold clamping cylinder for clamping and opening/closing a mold in a direct-acting manner;

a single two-way hydraulic pump driven by a driving motor for supplying hydraulic fluid to the mold clamping cylinder in two directions;

a hydraulic circuit for driving the mold clamping cylinder by controlling supply of hydraulic fluid from the two-way hydraulic pump to the mold clamping cylinder and discharge of hydraulic fluid from the mold clamping cylinder which proceeds in accordance with movement of a piston of the mold clamping cylinder; and

a hydraulic controller for controlling rotational speed of the driving motor associated with the two-way hydraulic pump in opening/closing the mold at high speed and controlling torque of the driving motor in clamping the mold.

2. A diecasting machine comprising:

a mold clamping cylinder for clamping and opening/closing a mold in a direct-acting manner;

a plurality of two-way hydraulic pumps connected in parallel with each other and driven by respective driving motors for supplying hydraulic fluid to the mold clamping cylinder in two directions;

a hydraulic circuit for driving the mold clamping cylinder by controlling supply of hydraulic fluid from the two-way hydraulic

pumps to the mold clamping cylinder and discharge of hydraulic fluid from the mold clamping cylinder which proceeds in accordance with movement of a piston of the mold clamping cylinder; and

a hydraulic controller for actuating one of the two-way hydraulic pumps which is larger in capacity or both of the two-way hydraulic pumps in opening/closing the mold at high speed and actuating any one of the two-way hydraulic pumps or one of the two-way hydraulic pumps which is smaller in capacity in clamping the mold.

3. The diecasting machine according to claim 2, wherein the two two-way hydraulic pumps are generally equal in capacity.

4. The diecasting machine according to claim 2, wherein one of the two-way hydraulic pumps which is driven in opening/closing the mold at high speed is larger in capacity than the other two-way hydraulic pump which is not driven in opening/closing the mold at high speed.

5. The diecasting machine according to claim 1, wherein the hydraulic controller is operative to control a discharge rate of the two-way hydraulic pump based on hydraulic pressure information from a hydraulic fluid pipeline situated on a side toward which the piston is protruding.

6. The diecasting machine according to claim 2, wherein the hydraulic controller is operative to control a discharge rate of each of the two-way hydraulic pumps based on hydraulic pressure information from a hydraulic fluid pipeline situated on a side toward which the piston is protruding.

7. The diecasting machine according to claim 1, wherein the driving motor associated with the two-way hydraulic pump is a servomotor.

8. The diecasting machine according to claim 2, wherein the driving motors associated with the respective two-way hydraulic pumps are each a servomotor.